

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : Unknown Confirmation No. Unknown
Applicant (s) : R. Keith Frank et al.
Filed : Concurrently Herewith
TC/A.U. : 1616
Examiner : Dameron L. Jones
Title : ACTINIUM-225 COMPLEXES AND CONJUGATES FOR
TARGETED RADIOTHERAPY

Docket No. : 61567b
Customer No. 00109

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450


Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the Examiner's attention is directed to the information identified in the attached Form PTO 1449.

A copy of all cited patents and printed publications is available in the co-pending U.S. Patent Application no. 10/085,930 filed February 27, 2002. The Examiner is requested to review each reference and formulate his/her own understanding thereof.

Respectfully submitted,


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tw

61567B

INFORMATION DISCLOSURE STATEMENT (Use Several Sheets if necessary)	ATTY DOCKET NO.	SERIAL NO.
	61567B	
	APPLICANT	
	R. Keith Frank, et al.	
	FILING DATE	GROUP
	Concurrently Herewith	1619

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
		4,897,254	Jan. 30, 1990	Simon et al	424	1.1	
		5,342,925	Aug 30, 1994	Wilson et al	534	10	
		5,428,139	Jun. 27, 1995	Kiefer et al.	534	10	
		5,435,990	Jul. 25, 1995	Cheng et al.	424	153	
		5,480,990	Jan 2, 1996	Kiefer et al.	540	465	
		5,652,361	Jul. 29, 1997	Simon et al.	540	474	
		5,696,239	Dec. 9, 1997	Wilson et al.	534	10	
		5,739,294	Apr. 14, 1998	Kiefer et al.	534	15	
		5,756,065	Ay 26, 1998	Wilson et al.	424	1.53	

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)	
	Kaspersen et al., "Cytotoxicity of ^{213}Bi - and ^{225}Ac -Immunoconjugates," <u>Nuclear Medicine Communications</u> , Vol. 16, 1995, pp. 468-476.
	Kozak et al., "Bismuth-212-Labeled Anti-Tac Monoclonal Antibody: Alpha-Particle-Emitting Radionuclides as Modalities for Radioimmunotherapy," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 83, January 1986, pp. 474-478.
	Macklis et al., "Radioimmunotherapy With Alpha-Particle-Emitting Immunoconjugates," <u>Science</u> , Vol. 240, 1988, pp. 1024-1026.
	Geerlings et al., "The Feasibility of ^{225}Ac as a Source of Alpha-Particles in Radioimmunotherapy," <u>Nuclear Medicine Communications</u> , Vol. 14, 1993, pp. 121-125.
	G. J. Beyer, et al., "Comparison of the Biodistribution of ^{225}Ac and Radio-Lanthanides as Citrate Complexes," <u>Isotoperpraxis</u> , Vol. 26, 1990, pp. 111-114.
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	K. A. Deal, et al., "Improved in Vivo Stability of Actinium-225- Macrocyclic Complexes," <u>J. Med. Chem.</u> , Vol. 42, 1999, pp. 298-292.
	G. Kohler, et al., "Continuous Cultures of Fused Cells Secreting Antibody of Predefined Specificity," <u>Nature</u> , Vol. 256, August 1975, pp. 495-497.
	G. Kohler, et al., "Derivation of Specific Antibody-Producing Tissue Culture and Tumor Lines By Cell Fusion," <u>Eur. J. Immunol.</u> , Vol. 6, 1976, pp. 511-519.

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to Applicant.	

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE <small>IF APPROPRIATE</small>
		5,834,456	11-1998	Kiefer et al.	514	86	
		5,750,660	05-1998	Kiefer et al.	534	10	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
	WO	99/30745	Jun. 24, 1999	PCT	A61K	51/00		
	WO	01/66155	Sep. 13, 2001	PCT	A61K	51/04		
	WO	00/59896	Oct. 21, 2000	PCT	C07D	259/00		
	WO	02/22000	Mar. 21, 2002	PCT	A61B			
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OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)	
	Meares et al., "Conjugation of Antibodies with Bifunctional Chelating Agents: Isothiocyanate and Bromoacetamide Reagents, Methods of Analysis, and Subsequent Addition of Metal Ions." <u>Analytical Biochemistry</u> , Vol. 142, 1984, pp. 68-74.
	G. E. Krejcarek and K. L. Tucker, "Covalent Attachment of Chelating Groups to Macromolecules," <u>Biochemical and Biophysical Research Communications</u> , Vol. 77, No. 2, 1997, pp. 581-585.
	J. K. Moran, et al., "Improved Synthesis of 6-[p-(Bromoacetamide)benzyl]- 1,4,8,11-tetraazacyclotetradecane-N, N', N", N"-tetraacetic Acid and Development of a Thin-Layer Assay for Thiol-Reactive Bifunctional Chelating Agents," <u>Bioconjugate Chem.</u> , Vol. 6, No. 3, 1995, pp.296-301.
	C. F. Meares and O. Renn, "Large-Scale Synthesis of the Bifunctional Chelating Agent 2-(p-Nitrobenzyl)-1,4,7,10-tetraazacyclododecane- N, N', N", N"-tetraacetic Acid, and the Determination of Its Enantiomeric Purity by Chiral Chromatography," <u>Bioconjugate Chem.</u> , Vol. 3, No. 6, 1992 pp. 563-569.

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